

CLAIMS

1. A plasma display panel in which a plurality of pairs of first and second electrodes are disposed on a first substrate so as to be parallel to each other, a plurality of third electrodes are disposed on a second substrate, and main parts of a plurality of barrier ribs are disposed between adjacent third electrodes, the third electrodes being orthogonal to a longitudinal direction of display electrodes each of which consists of a pair of the first and second electrodes, wherein

a plurality of fourth electrodes are fixed to the barrier ribs or areas of a surface of the first substrate facing the barrier ribs so as to be at least in vicinities of areas between adjacent display electrodes, the fourth electrodes being electrically exposed to discharge spaces which are defined by the barrier ribs.

2. The plasma display panel of Claim 1, wherein the fourth electrodes are at a first distance from the first substrate, and fixed to the barrier ribs in such a manner as to be inserted in the barrier ribs or disposed on surfaces of the barrier ribs.

3. The plasma display panel of Claim 2, wherein the fourth electrodes are disposed on top of the barrier ribs.

4. The plasma display panel of Claim 2, further comprising:

a plurality of fifth electrodes which are inserted in the barrier ribs at a second distance from the first substrate.

5. The plasma display panel of Claim 4, wherein

5 sub-parts of the barrier ribs, which bridge adjacent main parts of the barrier ribs, are substantially orthogonal to the third electrodes,

the fourth electrodes are fixed to the main parts of the barrier ribs, and

10 the fifth electrodes are fixed to the sub-parts of the barrier ribs.

6. The plasma display panel of any of Claim 1 to 4, wherein sub-parts of the barrier ribs, which bridge adjacent main

15 parts of the barrier ribs, are substantially orthogonal to the third electrodes.

7. A plasma display device in which a plurality of pairs of first and second electrodes are disposed on a first substrate so as to be parallel to each other, a plurality of third electrodes are disposed on a second substrate, and main parts of a plurality of barrier ribs are disposed between adjacent third electrodes, the third electrodes being orthogonal to a longitudinal direction of display electrodes each of which consists of a pair of the first and second electrodes, wherein

25 a plurality of fourth electrodes are fixed to the barrier ribs so as to be at least in vicinities of areas between adjacent display electrodes, the fourth electrodes being electrically

exposed to discharge spaces which are defined by the barrier ribs, and

the plasma display device includes a driving circuit for applying a voltage to the fourth electrodes or for earthing the
5 fourth electrodes.

8. The plasma display device of Claim 7, wherein
the driving circuit applies a positive voltage to the
fourth electrodes.

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9. The plasma display device of Claim 8, wherein
the fourth electrodes are at a first distance from the
first substrate, and fixed to the barrier ribs in such a manner
as to be inserted in the barrier ribs or disposed on surfaces
15 of the barrier ribs.

10. The plasma display device of Claim 9, wherein
the fourth electrodes are disposed on top of the barrier
ribs.

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11. The plasma display device of Claim 10, wherein
the driving circuit applies a first voltage pulse and a
second voltage pulse to the first electrodes and the second
electrodes respectively, and additionally applies a third
25 voltage pulse to the fourth electrodes.

12. The plasma display device of Claim 11, further comprising:
a plurality of fifth electrodes which are inserted in the

barrier ribs at a second distance from the first substrate,
wherein

the driving circuit applies a fourth voltage pulse to the
fifth electrodes when outputting the first voltage pulse and
5 the second voltage pulse at the same time.

13. The plasma display device of Claim 12, wherein
sub-parts of the barrier ribs, which bridge adjacent main
parts of the barrier ribs, are substantially orthogonal to the
10 third electrodes,

the fourth electrodes are fixed to the main parts of the
barrier ribs, and

the fifth electrodes are fixed to the sub-parts of the
barrier ribs.

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14. The plasma display device of any of Claim 7 to 11, wherein
sub-parts of the barrier ribs, which bridge adjacent main
parts of the barrier ribs, are substantially orthogonal to the
third electrodes.